



LDR USB Connection



Directed Photonics Inc.

USB LOGIN

USB Connected

Level 2 Password



Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	

COM28 Port Open





SYSTEM STATUS

Sat 05 Mar 2016 08:26:58

LDR Code to Print

Marking Mode

Enable

Disable

LDR Machine Status

Marking Disabled

Fault Log

0

Print Count Reset

To Level 3

▼

To Level 1

▲

COM28 Port Open





LDR USB Connection



Directed Photonics Inc.

FAULT LOG

Latched Fault Status

Interlock	Laser 84	Temp	Overlap
Arm Swt	Laser Mod	Vacuum	
DC Power	Laser RF	Air	

Latched Laser Faults

84V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laser	1	2	3	4	5	6	7	8	9

Reset Faults

Fault History Log

Sensor Data

To System Status

COM28 | Port Open | | |



SENSOR DATA

Temperature (C)	28.0
Interlock Detect	Ok
Arm Switch	On
TwinLine Detect	Absent
User In A	On
User In B	Off

To System Status





BUILD MESSAGE

Message Line Number 1

▲	TEXT	<input checked="" type="checkbox"/>	▼
	TIME	<input type="checkbox"/>	
	DATE	<input type="checkbox"/>	
	OFFSET	<input type="checkbox"/>	
	SYMBOL	<input type="checkbox"/>	
	COUNTER	<input type="checkbox"/>	

To Text Edit

To Save Message

To Recall Message

To Level 4 ▼

To Level 2 ▲



TEXT EDIT

Line 1 Text Input

Line 2 Text Input

◀ **To Build Message** ▶

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	





SAVE MESSAGE

Save Message Name and Texts

Save Message Number

▼ ▲

Save Message

To Build Message

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	



RECALL MESSAGE

Recall Message Name and Texts

Recall Message Number

▼ ▲

Recall Message

To Build Message

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	



MESSAGE FORMAT

Font Dot Size	5 x 7
Message Reverse	Off
Character Flip	Off
Bolding	1
Twin Line	Off
All Caps	Off
Double Spacing	Off

◀ **To Build Message** ▶

Q W E R T Y U I O P

A S D F G H J K L

abc Z X C V B N M back

?123 . [] . enter





PRODUCT DETECT

Product Detect Source	External
Internal PD Timing Divider	1000
Internal PD Trigger Source	Mark Tmr
External PD Source	PDET_A
Product Detect A Edge	Rise
Product Detect B Edge	Rise
Mark Enable Mode	Pulse

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	.	_		/	.			enter	

COM28 Port Open





MARK TIMING

Timing Pulse Source	Internal
Internal Timing Pulse (usec)	200
External Timing Select	Pulse
External Timing Divider	1
Encoder Connection Type	Ch-A+B
Mark Delay	3

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	,	-		/	.			enter	

COM28 Port Open





COUNTER

Counter Width	10
Counter Start Value	0
Counter End Value	9999999999
Counter Current Value	0
Counter Step Size	1
Repeat Count	1
Counter Step Control	None
Counter Reset Method	None

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
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ABC	.	_		/	.			enter	



TIME STAMPS

Date Code Format	mm/dd/yy
Time Code Format	hh:mm ap
Offset Time (days)	1

◀ To Build Message ▶

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	

COM28 Port Open





SYMBOLS

Symbol 1 Select

Box Mark

Symbol 2 Select

Box Mark



To Build Message



Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	

COM28 Port Open





LASER PARAMETERS

Laser Count	7
Laser Pulsewidth (usec)	150
Idle Pulse Enable	Off
Idle Pulsewidth (usec)	10
Fault Strobe Pos (usec)	5
Laser Weighting Enable	On
Laser Channel	1
Laser Channel Weight (%)	100

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	.	_		/	.			enter	



LDR USB Connection



Directed Photonics Inc.

REAL TIME CLOCK

Clock Time (hhmmss)

08:29:38

Clock Date (mddyy)

03/05/16

Set Time/Date To Clock

Current Clock Setting

Sat 05 Mar 2016 08:29:40



To Build Message



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ABC

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enter

COM28

Port Open





LDR USB Connection



Directed Photonics Inc.

TWIN-LINE PARAMETERS

Justification Delay	100
Minimum Delay	20
Print Which Line First	1



To Build Message



1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	.	_		/	.	enter			

COM28 Port Open





LDR USB Connection



Directed Photonics Inc.

LASER TEST

Laser Test Period (usec)	1000
Test Pulse Width (usec)	100
Test Trigger Select	Menu Key
Laser Channel Select	1
Laser Channel On/Off	Off

1 2 3 4 5 6 7 8 9

All Lasers Off

Start/Stop



To Build Message



1 2 3 4 5 6 7 8 9 0

Testing Disabled

ABC . - / . enter

COM28 Port Open





COLD START

Cold Start Period (usec)	1000
Cold Start Width (usec)	50
Cold Start Pulse Count	500
Cold Start Enable	Off

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	,	-		/	.			enter	

COM28 Port Open





SIGNAL FILTERS

User In A Filtering	On
User In B Filtering	On
Arming Switch Filtering	On
Mark Enable Filtering	On
Interlock Filtering	On
Product Detect A Filtering	Off
Product Detect B Filtering	Off
External Trigger Filtering	Off

◀ To Build Message ▶

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	





FAULT CONFIGURATION

Vacuum Detector	User In A
Vacuum Fault Type	Warning
Air Detector	Off
Air Fault Type	Warning
Air / Vac Delay	1
Laser RF Fault Type	Warning
Overlap Fault Type	Warning

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	,	-		/	.	enter			

COM28 Port Open





LED INTENSITY

Red LED (%)	100
Green LED (%)	100
Yellow LED (%)	100
Blue LED (%)	100
Intensity Control Enable	Off

◀ To Build Message ▶

1	2	3	4	5	6	7	8	9	0
@	#	\$	%	^	-	+	()	
=\<	*	=	'	:	;	!	?	back	
ABC	.	-		/	.		enter		

COM28 Port Open





DATABASE RESET - RECALL

Reset to Factory Defaults?

No

Confirm Reset

Recall Last Database?

No

Confirm Recall



To Build Message



LDR USB Connection X



Directed Photonics Inc.

DATA LOG

System Power On Hours 2248:20

Total Printer Enabled Time 749:20

Software Version 1.00

FPGA Version 1.36



To Build Message



Maintenance

COM28 Port Open





MAINTENANCE LOGIN

Back to Data Log

Maintenance Password

▼ ▼

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	





MAINTENANCE

Reset Hours Log



To Build Message



Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
abc	Z	X	C	V	B	N	M	back	
?123	.						.	enter	

